101/2024

Time: 1 hour and 30 minutes 1. Who wrote the book Historia Da Malabar? Shaikh Zainudin (A) (B) Diogo Gonsalves (C) Joeph Kathanar (D) William Logan 2. Which revolution can be considered as the result of intellectual Enlightenment? French Revolution (B) Revolution in England Chinese Revolution (C) (D) Russian Revolution 3. Who provided Solar Panel Substrates for Chandrayan-3? SAC, Ahmedabad NRSC, Hyderabad (C) VSSC, Trivandrum ISTRAC, Bangalore (D) 4. Which one of the following statement is/are correct about Inversion of Temperature? (i) There is an increase in temperature with an increase of elevation Absence of winds and clear skies are ideal for a Temperature Inversion Cold dry air is an ideal condition for a Temperature Inversion Snow covered earth is not an ideal condition for a Temperature Inversion (A) (i) and (iv) only are correct (B) (i) and (ii) are not correct (iii) and (iv) are correct (i), (ii) and (iii) are correct **5**. Match the following and find correct option: В A The central mass of Earth Nife (i) (ii) The outer rock shell of Earth Lithosphere Mohorovicic Discontinuity between Crust and Mantle Sima Layer Pyrosphere (iv) (A) (i), (ii) and (iv) are correct (B) (ii), (iii) and (iv) are correct (C) (i) and (iii) are correct (D) All the above options are correct 6. The theme of World Environment Day 2024 is:

(B)

(D)

3

Only One Earth

Ecosystem Restoration

Beat Plastic Pollution

(C) Our Land Our Future

(A)

A

Maximum: 100 marks

7.	What is the aim of 'Vocal for Local' initiative of NITI Aayog?					
	(i) Bolstering local economies					
	(ii)	Fost	ering grassroots entrepreneurship			
	(iii)	Imp	rovement in local communication system	n		
	,	(A)	Only (iii)	(B)	Only (i) and (ii)	
		(C)	All of the above (i), (ii) and (iii)	(D)	Only (i)	
8.	Whic	ch of t	he following is not a benefit of first gree	en rev	rolution?	
		(A)	Improvement in horticulture and florid	cultur	re	
		(B)	Increase in food grain output			
		(C)	Increased income of the rural people			
		(D)	Encouragement of multiple cropping			
9.	Whic	ch are	the central taxes that are subsumed in	GST	?	
	(i)	Unio	on excise duties from non-petroleum pro	ducts	3	
	(ii)	Corp	oorate tax			
	(iii)	Serv	rice Tax			
		(A)	Only (ii)	(B)	Only (i)	
		(C)	Only (i) and (iii)	(D)	All of the above	
10.	Whic	eh Art	cicle of the Indian Constitution deals wi	th the	e establishment of Grama Panchayats?	
		(A)	Article 243A	(B)	Article 243B	
		(C)	Article 243G	(D)	Article 243Z	
11.			the following initiative by government or women entrepreneurs?	of In	dia is to provide an online marketing	
		(A)	Mahila E-haat	(B)	Mahila E-waat	
		(C)	Mahila E-maat	(D)	Mahila E-vaat	
12.		was over?		tuent	Assembly before Dr. Rajendra Prasad	
		(A)	Dr. B.R. Ambedkar	(B)	C. Rajagopalachari	
		(C)	Dr. Sachidananda Sinha	(D)	T.T. Krishnamachari	
13.			e executive authority to advice the Unice of legal character?	n Gov	vernment on legal matters and perform	
		(A)	Advocate General	(B)	Attorney General	
		(C)	Comptroller and Auditor General	(D)	Supreme Court	

14.	As per Ai India:	rticle 279A of Indian Constitution, wh	o acts	s as the chairperson of GST Council of
	(A)	Prime Minister	(B)	Minister of Industry
	(C)	Minister of Commerce	(D)	Union Minister of Finance
15.	73 rd Amer	ndment of the Constitution of India rela	ated to	which among the following?
	(A)	Municipalities	(B)	Panchayat
	(C)	Nagarapalika	(D)	Township
16.	Which of Assembly		ble of	Indian Constitution in our Constituent
	(A)	29th day of 1949	(B)	29th day of 1950
	(C)	26th day of 1949	(D)	26 th day of 1950
17.	Which act	t was passed in 2012 deals with issues	of sexu	ual offenses against children?
	(A)	POCSO	(B)	POSCO
	(C)	POXCO	(D)	POCXO
18.	"May all b	pe happy" is the motto of which commis	ssion?	
	(A)	SHRC	(B)	UDHR
	(C)	NHRC	(D)	All of the above
19.	What do y	you mean by an attosecond?		
	(A)	$10^{-18} \ { m second}$	(B)	$10^{-16}~{ m second}$
	(C)	10 ⁻¹⁴ second	(D)	$10^{-12} \ { m second}$
20.	Which typ	pe of force given below is the weakest for	orce?	
	(A)	Strong Nuclear Force	(B)	Weak Nuclear Force
	(C)	Electromagnetic Force	(D)	Gravitational Force
21.	What is to Earth?	he approximate distance of the periodi	c Halo	o orbit of the Aditya-L1 spacecraft from
	(A)	1.5 Million kilometres	(B)	1.5 Billion kilometres
	(C)	1.5 Trillion kilometres	(D)	1.5 Quadrillion kilometres
22.	Which of	the following functional group is presen	nt in a	n alkaloid structure?
	(A)	Amine	(B)	Carboxylic acid
	(C)	Amide	(D)	Ketone
23.	What is tl	ne constant in ideal gas equation?		
	(A)	Pressure constant	(B)	Boltzmann constant
	(C)	Temperature constant	(D)	Universal Gas constant

24.			Prize in Chemistry was granted for used in QLED technology to enhance w		
	(4	A)	Contrast ratio	(B)	Speaker quality
	(C)	Touch sensitivity	(D)	Battery life
25 .	Which body?	vita	amin is involved in the regulation of o	alciu	m and phosphorus homeostasis in the
	(4	A)	Vitamin K	(B)	Vitamin D
	(C)	Vitamin B12	(D)	Vitamin E
26.	Which underp		itiative in Kerala focuses on prov leged?	iding	free health care services to the
	()	A)	Arogya Keralam	(B)	Ayushman Bharat
	(C)	Nava Kerala Mission	(D)	Kudumbashree
27.			s are responsible for producing the material nervous system?	yelin	sheath in the central nervous system
	(i) S	Schw	vann cells		
	(ii) C	Oligo	odendrocytes		
	(iii) N	Veur	ron		
	(iv) N	Aicro	oglia		
	(4	A)	Only (i) and (iv)	(B)	Only (i)
	(C)	Only (i) and (ii)	(D)	Only (ii)
28.	Which	is tl	he merit of Dot Matrix Printer?		
	(4	A)	Other language print	(B)	Not expensive
	(C)	Used Widely	(D)	All of them
29.	Device	tha	t helps prevent congestion and data col	llision	s:
	(4	A)	Hub	(B)	Gateway
	(C)	Switch	(D)	Proxy Server
30.	Which attack		the following DDoS in mobile system	ıs wa	it for the owner to trigger the cyber
	(4	A)	Worms	(B)	Virus
	(C)	Botnets	(D)	Programs
31.	Accord	ing	to Maslow, the hierarchy of needs does	not in	nclude :
	(4	A)	Psychological needs	(B)	Safety needs
	(C)	Self-actualization needs	(D)	Physiological needs

32.	Who wrot	e the book named "human side of the	enterpr	rise"?
	(A)	Henry Fayol	(B)	Charles Babbage
	(C)	Douglas Mc Gregor	(D)	Peter F Drucker
33.	Who is th	e present chairman of RBI?		
	(A)	Gita Gopinath	(B)	Raghuram Rajan
	(C)	Shaktikanta Das	(D)	Urjit Patel
34.		e SEBI (Issue of capital and disclosur or issuing securities?	e requir	ements) regulations, which one is not a
	(A)	Right Issue	(B)	Bonus Issue
	(C)	Insider Trading	(D)	Initial Public Offer
35.	Which of	the following stock exchange has its i	ndex na	med as "Sensex"?
	(A)	Calcutta stock exchange	(B)	National stock exchange
	(C)	London stock exchange	(D)	Bombay stock exchange
36.	According depreciat		shown i	n the accounting records at cost less
	(A)	Going Concern Concept	(B)	Business Entity Concept
	(C)	Money Measurement Concept	(D)	Matching Concept
37.	Who amo	ng the following stated that "coordina	ition is t	he essence of management"?
	(A)	Koontz and O'donell	(B)	F.W. Taylor
	(C)	Peter F Drucker	(D)	Henry Fayol
38.	Which Ba	inks merged in Bank of Baroda on 1st	April, 2	019?
	(A)	Union Bank of India and United Ba	nk of In	dia
	(B)	Oriental Bank of Commerce and Ur	nited Ba	nk of India
	(C)	Vijaya Bank and Dena Bank		
	(D)	Indian Bank and Allahabad Bank		
39.	Who coine	ed the concept of management accour	iting?	
	(A)	R.N. Carter	(B)	James H Bliss
	(C)	Peter F Drucker	(D)	F.W. Taylor
40.			sing or	synchronising of individual efforts with
		se of achieving group goals?	(D)	Control
	(A)	Coordination	(B)	Control
	(C)	Decision making	(D)	Delegation

41.	The value	of $\frac{43}{1000}$ in decimal fr	action is :		
	(A)	0.0430	(E	3)	0.0034
	(C)	0.4300	(E	,	0.0043
42.		price of 20 articles is the value of x is:	he same as the sellir	ng p	price of x articles. If the profit is 25%
	(A) (C)	15 30	(E (D		16 25
43.		eposited Rs. 15,000 led annually. How muc Rs. 3,150		et a	npound interest is 10% per annum fter 2 years? Rs. 1,500
	(C)	Rs. 3,000	(I		Rs. 3,350
44.		age of 50 members is 3 ning numbers will bec		rs,	45 and 55 are discarded the average of
	(A)	36	(B	3)	36.5
	(C)	37	(D))	37.5
45.		$(\frac{1}{3}, 3^{\frac{1}{4}}, 5^{\frac{1}{6}}, 6^{\frac{1}{12}})$ which o	ne is greater?		1
	(A)	$6^{\frac{1}{12}}$	(E	3)	$3^{\frac{1}{4}}$
	(C)	$2^{rac{1}{3}}$	(I))	$5^{\frac{1}{6}}$
		_		,	
46.		next number in the ser) \	ore
	(A) (C)	150 216	(E (E		256 212
47 .	If '-' stand		ds for multiplication		-' stands for subtraction and 'x' stands
	(A)	57	(B	3)	38
	(C)	62	$(\Gamma$))	70
48.	If the wat	er image of the clock s	hows 3 hours 25 min	nute	es, then what will be the actual time?
	` '	3 hours 5 minutes	,	,	3 hours 55 minutes
	(C)	3 hours 35 minutes	$(\Gamma$))	3 hours 45 minutes
49.	written in	that code language?			RVMW, then how is TRADER will be
	(A)	WMVRIU	(E		GIZWVI
	(C)	GIZVIW	$(\Gamma$))	GZIWIV
50.		ecember 1993, Laksh be the day on their ar		leb	rated their anniversary on Monday.
	(A)	Sunday	(B	3)	Tuesday
	(C)	Saturday	Γ))	Friday

51.	He drives	the car very ———.		
	(A)	Fast	(B)	Rapid
	(C)	Fastly	(D)	Quick
52.	They shift	ted all their — in a single	day.	
	(A)	furnitures	(B)	furniture
	(C)	furnishing	(D)	equipments
53.	Please pa	ss the rice, ———?		
	(A)	should you	(B)	did you
	(C)	may you	(D)	will you
54.		that is correctly spelled is:		
	(A)	Blasfemous	(B)	Blasphemous
	(C)	Blasmefaous	(D)	Blasephmous
55.	-	and my brother — study		_
	(A)	are	(B)	will
	(C)	is	(D)	may
56.	Next weel	x we ——— our examinations.		
	(A)	will had	(B)	would had
	(C)	are having	(D)	were having
57 .	A suitable	e antonym for the word "Obnoxious"	is:	
	(A)	Unpalatable	(B)	Pleasant
	(C)	Detestable	(D)	Revolting
58.	She divide	ed the money — her two c	hildren.	
	(A)	between	(B)	among
	(C)	amongst	(D)	besides
59 .	Which is t	the most appropriate passive form of	the sent	ance "Nobody invited me"?
00.	(A)	Nobody has invited me	(B)	Nobody was invited by me
	(C)	I was not invited by nobody	(D)	I was not invited by anybody
	(0)	1 was not invited by nobody	(D)	1 was not invited by any sody
60.		suitable meaning of the word "Carte		
	(A)	Unlimited authority	(B)	Restricted access
	(C)	Existing condition	(D)	Established fact
A		9		101/2024 [P.T.O.]

61.	Whi	ch of	the following statement	s is/are TRUE reg	gard	ing the IDE and SATA interfaces?			
	(i)	IDE	E cables hinder proper ai	irflow inside the s	$\operatorname{syst}\epsilon$	em chassis			
	(ii)	IDE sata transfer is parallel whereas SATA data transfer is serial							
	(iii)	IDE	E always performs faster	than all versions	s of S	SATA			
	(iv)	IDE	E has master-slave arrar	ngements wherea	s SA	TA does not have such distinction			
		(A)	Only (i), (ii) and (iv)						
		(B)							
		(C)	Only (i) and (ii)						
		(D)	All of the above (i), (ii)	, (iii) and (iv)					
62.	Which of the following methods access the memory bus and bypass the CPU for the transfer of data between the CPU and peripheral devices?								
	(i)	DM	A						
	(ii)	Pro	grammed I/O						
	(iii)	Inte	errupt driven I/O						
		(A)	Only (i)		(B)	Only (i) and (iii)			
		(C)	Only (ii)		(D)	Only (iii)			
63.	Read	Read the following statements and find the correct sequence of instruction execution:							
	(i)	Fet	ch the operands from me	emory					
	(ii)	Cal	culate the effective addr	ess					
	(iii)	Exe	ecute the instruction						
	(iv)	Dec	ode the instruction						
	(v)	Fet	ch the instruction from 1	memory					
	(vi)	Sto	re the result in the prop	er place					
		(A)	(v), (i), (ii), (iv), (iii), (v	i)	(B)	(ii), (v), (iv), (i), (iii), (vi)			
		(C)	(ii), (i), (v), (iii), (iv), (v	i)	(D)	(v), (iv), (ii), (i), (iii), (vi)			
64.	Whi	ch on	e of the following is NO	Γa motherboard	form	ı factor?			
		(A)	ATX		(B)	BTX			
		(C)	FTX		(D)	ITX			

65.	Whi	ch one	e of the following will NOT be a s	standard AT	X power supply output voltage?
		(A)	+12 V	(B)	+5 V
		(C)	-3 V	(D)	-12 V
66.	Whi	ch of	the following statements is FALS	SE about a fi	rewall?
	(i)		ewall prevents unauthorized a work	access and	malicious packets from entering the
	(ii)	Fire	ewall works based on a set of def	ined inbound	d and outbound rules
	(iii)		ewall can prevent the threats can puter	aused by sof	tware and application flaws inside the
		(A)	Only (i)	(B)	Only (iii)
		(C)	Only (ii) and (iii)	(D)	Only (i) and (ii)
67.	Whi	ch of	the following is/are NOT a symp	tom for CMC	S battery failure?
	(i)	Fail	to detect the basic peripherals s	such as keybo	oard and monitor
	(ii)	Inco	orrect or slow system date and ti	me in the BI	OS
	(iii)	Los	s of customized settings in the B	IOS	
	(iv)	Con	tinuous non stop beep sound wh	en switching	on the computer
		(A)	Only (i) and (ii)		
		(B)	Only (iii) and (iv)		
		(C)	Only (i) and (iv)		
		(D)	Only (ii) and (iii)		
68.	Whic	ch of	the following is a laser printer p	roblem?	
		(A)	White lines caused by clogged a	nozzles that	aren't dispensing ink
		(B)	Dark vertical lines caused by d	efective tone	r cartridges
		(C)	Printer carriage moves and the	e printer mal	kes noise but nothing is printed caused
			by dried ink ribbon		
		(D)	None of the above		

69. Consider the following set of processes, with the length of the CPU burst given in milliseconds:

Process	Burst Time
P1	6
P2	8
Р3	7
P4	3

What will be the average waiting time if the process scheduling follows a non preemptive SJF scheduling?

(A) 7 milliseconds

(B) 6 milliseconds

(C) 10.25 milliseconds

- (D) 4 milliseconds
- **70.** Given four conditions about processes and resources:
 - (i) Mutual exclusion
 - (ii) Hold and wait
 - (iii) No preemption
 - (iv) Circular wait

Which one of the following has to be TRUE for a deadlock to happen?

- (A) Only the Condition (iv) needs to occur
- (B) Only the Conditions (iii) and (iv) need to occur simultaneously
- (C) Only the Conditions (ii) and (iv) need to occur simultaneously
- (D) All the Conditions need to occur simultaneously
- 71. Which of the following is/are TRUE regarding memory allocation?
 - (i) External fragmentation occurs when the available free space is fragmented into a large number of small Holes
 - (ii) Internal fragmentation occurs in fixed memory partitions when the memory allocated to a process may be slightly larger than the requested memory
 - (iii) External fragmentation can be solved by compaction only if the relocation is static
 - (A) Only (i) and (iii)

(B) Only (i)

(C) Only (iii)

(D) Only (i) and (ii)

A				13		101/2024		
		(C)	255.254.0.0	(D)	255.255.0.0		
		(A)	255.252.0.0	(B)	255.253.0.0		
76 .	Whi	ch of	the following is not a vali	d subnet mask?				
		(C)	Only (iii)	(D))	All the above (i), (ii) and (iii)		
		(A)	Only (i)	(B	•	Only (ii)		
	(iii)	back	xup sets to restore the file	es.		ase as well as the last the differential		
	(ii)	bacl	xup sets to restore the file	es		base as well as all the incremental		
	(::)		of the files	a a full backun		has as well as all the incommental		
	(i)							
75.	Whi	ch of	the following backup scer	narios is/are TRUF	E?			
		(D)	HDDs consume great po	ower and mostly s	uff	er from mechanical failure		
		(C)	NVMe technology is int	erfaced through S	ΑТ	'A bus		
		(B)	SAS storage is best su need high availability a		sto	orage arrays and workstations which		
		(A) SSD uses NAND flash memory to store data						
74.	Whi	ch of	the following statements	is FALSE regardi	ng	storage devices?		
		(C)	RAID Level 2	(D)	RAID Level 1		
		(A)	RAID Level 5	(B)	RAID Level 3		
10.			ormation is distributed in	_	CK	s are stored in unierent disks and the		
73.	Non	o the	RAID lovel in which th	o strinod data blo	ok	s are stored in different disks and the		
		(C)	FCFS	(D)	SSTF		
		(A)	LOOK	(B)	SCAN		
			direction of head moveme disk scheduling algorithr			servicing continues". Which one of the ??		
72.	"The disk arm starts at one end of the disk and moves toward the other end, servicing requests as it reaches each cylinder, until it gets to the other end of the disk. At the other							
79	"The	dial	r amm stants at ano and	of the distrand	***	area toward the other and commising		

77.	Whi	ch of	the following statements is/aı	re TRUE about	a	computer network?		
	(i)	The	IP address 192.168.20.241 be	elongs to the ne	etv	work 192.168.20.0/26		
	(ii)	The IP address 172.26.16.1 is the first host in the network 172.26.0.0/15						
	(iii)	The	destination address 255.255.	255.255 is used	l f	or broadcasting in the local network.		
	(iv)	The IPv		69.255.0.0/16 a	are	e used as the link local addresses in		
		(A)	Only (i) and (iii)	(B)		Only (ii) and (iii)		
		(C)	Only (ii), (iii) and (iv)	(D)		All the above (i), (ii), (iii) and (iv)		
78.	Which of the following statements is/are TRUE about an OSPF routing scenario?							
	(i)	Intr	a domain routing is used in b	etween Autono	m	ous Systems.		
	(ii)	OSF	PF works based on path vector	r routing.				
	(iii)	OSPF supports point-to-point links only.						
	(iv)	OSPF represents the actual network as a graph and every node in it computes the shortest path to all others.						
		(A)	Only (i) and (iii)					
		(B)	Only (ii)					
		(C)	Only (iv)					
		(D)	All the above (i), (ii), (iii) an	d (iv)				
79.	Whi	ch of	the following statements is/ar	re TRUE regard	dir	ng an IDS?		
	(i)	IDS	monitors and identifies unau	thorized system	m	access attempts.		
	(ii)	IDS	can detect DoS attacks.					
	(iii)	IDS	needs the network card not t	o be in promiso	cuc	ous mode.		
	(iv)	Sno	rt is an example for a networl	k based IDS.				
		(A)	Only (i) and (ii)	(B)		Only (i), (ii) and (iv)		
		(C)	Only (ii) and (iii)	(D)		All the above (i), (ii), (iii) and (iv)		
80.	Whi	ch of	the following is NOT a DHCF	message type?	?			
		(A)	DHCPOFFER	(B)		DHCPACK		
		(C)	DHCPNACK	(D)		DHCPRESTORE		

81.	Which schema describes the part of database that a particular user group is interested and hides the rest of the database from that group, in three schema architecture of database systems?					
		(A)	Internal Schema	(B)	External Schema	
		(C)	Conceptual Schema	(D)	Conceptual and External Schema	
82.	In w	hich (of the following data model m	any to many rel	ationship cannot be expressed?	
		(A)	Network Model	(B)	Relational Model	
		(C)	Hierarchical Model	(D)	Object Based Model	
83.			the following type of DBMS l t separation between concept		l to define the internal schema if there l levels?	
		(A)	Data Definition Language			
		(B)	Storage Definition Languag	e		
		(C)	View Definition Language			
		(D)	Data Manipulation Langua	ge		
84.	Whi	ch of	the following statement is/are	true?		
	(i)	Data	abase state and schema are sa	ame		
	(ii)	Met	a data is the description of scl	hema constructs	s and constraints	
	(iii)	Sch	ema is the description of the d	latabase		
		(A)	(iii) Only			
		(B)	(i) and (iii) Only			
		(C)	(ii) Only			
		(D)	(ii) and (iii) Only			
85.	Whi	ch of	the following is/are valid data	types in SQL?		
	(i)	Tim	estamp			
	(ii)		rval			
	(iii)		r varying(n)			
	\/	(A)	(i) Only			
		(B)	(i) and (ii) Only			
		(C)	(i) and (iii) Only			
		(D)	(i), (ii) and (iii)			
		(\mathbf{L})	(1), (11) (111)			

86.	Which of the following statement is/are NOT TRUE?								
	(i)	DROP TABLE command removes table definition from catalog.							
	(ii)	ALTER command can be used to change the data type of an attribute.							
	(iii)	iii) Using RESTRICT option while using DROP TABLE command we can drop a t if it is referenced in any constraints							
		(A)	(i) and (ii) Only		(B)	(iii) Only			
		(C)	(i) and (iii) Only		(D)	(ii) and (iii) Only			
87.	Mate	ch the	e following :						
	(i)	Ass	Assertion		Imp	oves Performance			
	(ii)	Vie	W	(b)	Sele	ect tuple if condition matches			
	(iii)	Wh	ere clause	(c)	CHE	ECK			
	(iv)	Sto	red Procedure	(d)	Com	abines selected column			
		(A)	(i)-(c), (ii)-(a), (iii)-(d), (iv)-(b	o)					
		(B)	(i)-(d), (ii)-(c), (iii)-(b), (iv)-(a	a)					
		(C)	(i)-(c), (ii)-(d), (iii)-(b), (iv)-(a	a)					
		(D)	(i)-(d), (ii)-(a), (iii)-(b), (iv)-(a	c)					
88.	A ———— is a stored procedure which is executed automatically when some database								
	relat	related events occur.							
		(A)	Function		(B)	Trigger			
		(C)	Transaction		(D)	Cursor			
89.	The degree of a relationship type is:								
	(B) The number of participating entities								
	(C) The total number of attributes of participating entity types								
		(D)	None of the above						
90.	A ———— entity is created by defining set of subclasses of an entity type.								
		(A)	Higher Level		(B)	Generalised			
		(C)	Specialised		(D)	Lower Level			
101	/9094			16		A			

91.	Which of the following is/are NOT a superkey in a relational schema with attributes								
	P, Q, R, S where primary key is P R?								
	(i)	PQS							
	(ii)	PSR							
	(iii) PQRS								
	(iv)	QSR		(D)	(') 1('') 0 1				
		(A)	(i) Only	(B)	(i) and (ii) Only				
		(C)	(ii) and (iii) Only	(D)	(i) and (iv) Only				
92.	Relation R connects entity type X to entity type Y and R does not have its own attribute. Under which one of the following conditions can the relational table R be merged with that								
	of X	?							
		(A)	Relationship R is many to one and participation of X in R is partial						
		(B)	Relationship R is many to one and participation of X in R is total						
		(C)	Relationship R is one to many and participation of X in R is partial						
		(D)	Relationship R is one to many and participation of X in R is total						
93.	Which variation of two phase locking protocol requires a transaction to lock all the items it access before the transaction begins?								
		(A)	Basic 2PL	(B)	Strict 2PL				
		(C)	Conservative 2PL	(D)	Rigorous 2PL				
94.	Once a transaction is completed successfully the changes made by the transaction persist in the database even if the system fails. Which desirable property of a transaction is related to the above statement?								
		(A)	Atomicity	(B)	Consistency				
		(C)	Isolation	(D)	Durability				
95.	Which of the following statement is TRUE?								
		(A)	Cascading Rollback occurs in Basic Timestamp ordering algorithm						
		(B)	Shadow paging is a NO UNDO/NO REDO technique						
		(C)	In force approach all updated pages are immediately written to disk wher transaction commits						
		(D)	All the above						
A			17	,	101/2024				

96.	Which of	Which of the following statement is true in deferred update protocol?							
	(A)	(A) A transaction cannot change the database on disk until it reaches its commit point							
	(B)	A transaction does not reach its commit point until all its update operations ar							
	recorded in the log and log is force written to disk								
	(C) REDO is needed in case system fails after transaction commits but before change								
		are recorded on disk							
	(D)	All of the above							
97.	•								
	(A)	Multiple Hashing	(B)	Static Hashing					
	(C)	Linear Hashing	(D)	Extendible Hashing					
98.	If the file	records are ordered on a field which	h doog no	t have a distinct value for each record					
30.	8. If the file records are ordered on a field which does not have a distinct value for each record then the index is called:								
	(A)	Dense Index	(B)	Sparse Index					
	(A) (C)		` ,						
	(0)	Clustering Index	(D)	Secondary Index					
99.	An organ	nization has 4 departments. Wh	ich aggre	egate function and clause are used					
respectively if you want to get the average basic salary of employees in									
	departme	nt separately :							
	(A)	Avg and Group by							
	(B)	Average and Group by							
	(C)	Average and Having							
	(D)	Avg and Having							
100	Dallbaak i	is normally used to :							
100.		·	(D)	II. data the toronastico					
	(A)	Recover from transaction failure	(B)	Update the transaction					
	(C)	Retrieve old records	(D)	Repeat a transaction					

SPACE FOR ROUGH WORK

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